

IN THE CLAIMS

1-12 (cancelled).

13. (currently amended) A method of transmitting information, comprising:

forming a first bit stream including generating a first data table comprised of at least one that includes a first on-screen display message; forming a first bit stream that includes said first data table;

forming a second bit stream including a second generating at least one further data table that includes at least one index which identifies refers to a location of said the first on-screen display message within said the first data table and that includes a second on-screen display message having a higher priority than the first on-screen display message and which is readable independent of the first bit stream; forming at least one second bit stream that includes said further data table; and

transmitting said the first bit stream and said the second bit stream.

14. (currently amended) The method of claim 13, wherein said at least one of the first on-screen display message and the second on-screen display message includes at least one piece of data selected from the group consisting of an originator of said the on-screen display message, a level of said the on-screen display message, an attribute of said the on-screen display message, and an identification number of said the on-screen display message.

15. (currently amended) The method of claim 13, wherein said the first data table includes a plurality of sections, and said the at least one index identifies refers to one of said the plurality of sections.

16. (currently amended) The method of claim 15, wherein at least one of said the plurality of sections includes a plurality of messages.

17. (currently amended) The method of claim 15, wherein said further the second data table includes a plurality of indexes for each identifying a corresponding one of the plurality of sections within said the first data table.

18. (currently amended) The method of claim 13, wherein said further the second data table includes at least one piece of data selected from the group consisting of an originator of said the first on-screen display message, a level of said the first on-screen display message, an attribute of said the first on-screen display message, and an identification number of said the first on-screen display message.

19. (currently amended) The method of claim 13, wherein said further data table includes at least one the second on-screen display message is an urgent message.

20. (currently amended) The method of claim 13, wherein said the first bit stream includes another data table having at least one index which identifies refers to a location of a another on-screen display message within said the first data table.

21. (currently amended) The method of claim 13, wherein said the first bit stream and said the second bit stream correspond to are transmitted by respective transponders.

22. (currently amended) The method of claim 13, further comprising:

forming a plurality of second third bit streams including at least one additional that includes a third data table having at least one index which identifies refers to a location of a an associated on-screen display message within said the first data table.

23. (currently amended) The method of claim 22, wherein ~~said the index within said additional the third data table of at least two of~~ and the index within the ~~said second bit streams identifies data table refer to a common on-screen display message location within said the first data table.~~

24. (currently amended) The method of claim 22, wherein ~~said the first bit stream, the second bit stream and said plurality of second~~ the third bit streams ~~are each correspond to~~ transmitted by respective transponders.

25. (currently amended) An apparatus for transmitting information, comprising: a generating section for generating a first data table comprised of at least one message;

an encoder for ~~operable to~~ forming a first bit stream that includes ~~said including a first data table that includes a first on-screen display message~~; a further generating section for generating at least one further data table that includes at least one index which identifies a location of said message within ~~said first data table~~;

a further second encoder for ~~operable to~~ forming at least one ~~a~~ second bit stream that includes ~~said further including a second data table that includes at least one index which refers to a location of the first on-screen display message within the first data table and that includes a second on-screen display message having a higher priority than the first on-screen display message and which is readable independent of the first bit stream~~; and

an output for ~~operable to~~ transmitting ~~said the first bit stream and said the second bit stream~~.

26. (currently amended) The apparatus of claim 25, wherein ~~said at least one of the first on-screen display message and the second on-screen display message includes at least one piece of data selected from the group consisting of an originator of said the on-screen display message, a level of~~

~~said the on-screen display message, an attribute of said the on-screen display message, and an identification number of said the on-screen display message.~~

27. (currently amended) The apparatus of claim 25, wherein ~~said the first~~ data table includes a plurality of sections, and ~~said the at least one index identifies refers to~~ one of ~~said the~~ plurality of sections.

28. (currently amended) The apparatus of claim 27, wherein at least one of ~~said the~~ plurality of sections includes a plurality of messages.

29. (currently amended) The apparatus of claim 27, wherein ~~said further the second~~ data table includes a plurality of indexes ~~for each~~ identifying a corresponding one of the plurality of sections within ~~said the~~ first data table.

30. (currently amended) The apparatus of claim 25, wherein ~~said further the second~~ data table includes ~~at least one piece of data selected from the group consisting of an originator of said the first on-screen display message, a level of said the first on-screen display message, an attribute of said the first on-screen display message, and an identification number of said the first on-screen display message.~~

31. (currently amended) The apparatus of claim 25, wherein ~~said the second on-screen display message is an urgent message.~~

32. (currently amended) The apparatus of claim 25, wherein ~~said the first~~ bit stream includes another data table having at least one index which ~~identifies refers to~~ a location of ~~a another on-screen display message within said the first~~ data table.

33. (currently amended) The apparatus of claim 25, wherein ~~said the first~~ bit stream and ~~said the second~~ bit stream ~~correspond to are transmitted by~~ respective transponders.

34. (currently amended) The apparatus of claim 25, further comprising a plurality of further generating sections for generating third encoder operable to form a plurality of second third bit streams each including at least one additional that includes a third data table having at least one index which identifies refers to a location of an associated on-screen display message within said the first data table.

35. (currently amended) The apparatus of claim 34, wherein said the index within said additional the third data table of at least two of and the index within the said second bit streams identifies data table refer to a common on-screen display message location within said the first data table.

36. (currently amended) The apparatus of claim 34, wherein said the first bit stream, the second bit stream and said plurality of second the third bit streams correspond to are transmitted by respective transponders.

37. (currently amended) A readable medium recorded with instructions for carrying out a method of transmitting information, said instructions method comprising:

forming a first bit stream including generating a first data table comprised of at least one that includes a first on-screen display message; forming a first bit stream that includes said first data table;

forming a second bit stream including a second generating at least one further data table that includes at least one index which identifies refers to a location of said the first on-screen display message within said the first data table and that includes a second on-screen display message having a higher priority than the first on-screen display message and which is readable independent of the first bit stream; forming at least one second bit stream that includes said further data table; and

transmitting ~~said the~~ first bit stream and ~~said the~~ second bit stream.

38. (currently amended) A method of receiving transmitted information, comprising:

receiving a first bit stream and ~~at least one~~ a second bit stream;

forming, from ~~said the~~ first bit stream, a first data table that ~~is comprised of~~ at least one ~~includes~~ a first on-screen display message;

forming, from ~~said the~~ second bit stream, at least one ~~further~~ a second data table that includes at least one index which ~~identifies~~ ~~refers to~~ a location of ~~said the~~ first on-screen display message within ~~said the~~ first data table ~~and that includes~~ a second on-screen display message;

reading the second on-screen display message in the second data table;

locating and reading said the first on-screen display message in said the first data table using said the index stored in said further the second data table;

reading the first on-screen display message;

determining that the priority of the second on-screen display message is greater than the priority of the first on-screen display message; and

providing notification of said the second on-screen display message.

39. (currently amended) The method of claim 38, wherein ~~said further~~ ~~at least one of~~ the first data table and the second data table includes at least one piece of data selected from the group consisting of a level of ~~said the on-screen display message~~ and an attribute of ~~said the on-screen display message~~, and ~~said notification~~ the priority is determined based on ~~said the~~ level or ~~said the~~ attribute of ~~said message~~.

40. (currently amended) The method of claim 38, wherein ~~said further data table includes the second on-screen display message is an urgent message, and said notification determining step is determined based on a presence of said the urgent message.~~

41. (currently amended) An apparatus for receiving transmitted information, comprising:

~~a receiver for receiving operable to receive a first bit stream and at least one a second bit stream;~~

~~a processor for operable to forming, from said the first bit stream, a first data table that is comprised of at least one includes a first on-screen display message; said processor and to forming, from said the second bit stream, at least one further a second data table that includes at least one index which identifies refers to a location of said the first on-screen display message within said the first data table and that includes a second on-screen display message; said processor being further operable to read the second on-screen display message, locating and reading to locatesaid the first on-screen display message in said the first data table using said the index stored in said further the second data table, to read the first on-screen display message, to determine that the priority of the second on-screen display message is greater than the priority of the first on-screen display message, and said processor providing to thereby provide notification of said the second on-screen display message.~~

42. (currently amended) The apparatus of claim 41, wherein ~~said further at least one of the first data table and the second data table includes at least one piece of data selected from the group consisting of a level of said the on-screen display message and an attribute of said the on-screen display message, and said notification the priority is~~

determined based on said the level or said the attribute of said message.

43. (currently amended) The apparatus of claim 41, wherein said further data table includes the second on-screen display message is an urgent message, and said notification processor is operable to determine that the priority of the second on-screen display message is greater than the priority of the first on-screen display message based on a presence of said the urgent message.

44. (currently amended) A readable medium recorded with instructions for carrying out a method of receiving transmitted information, said instructions method comprising:

receiving a first bit stream and at least one a second bit stream;

forming, from said the first bit stream, a first data table that is comprised of at least one includes a first on-screen display message;

forming, from said the second bit stream, at least one further a second data table that includes at least one index which identifies refers to a location of said the first on-screen display message within said the first data table and that includes a second on-screen display message;

reading the second on-screen display message in the second data table;

locating and reading said the first on-screen display message in said the first data table using said the index stored in said further the second data table;

reading the first on-screen display message;

determining that the priority of the second on-screen display message is greater than the priority of the first on-screen display message; and

providing notification of said the second on-screen display message.

45. (currently amended) A method of delivering information, comprising:

forming a first bit stream including generating a first data table comprised of at least one that includes a first on-screen display message; forming a first bit stream that includes said first data table;

forming a second bit stream including a second generating at least one further data table that includes at least one index which identifies refers to a location of said the first on-screen display message within said the first data table and that includes a second on-screen display message; forming at least one second bit stream that includes said further data table; and

transmitting said the first bit stream and said the second bit stream;

receiving said the first bit stream and said the second bit stream;

forming, from said first bit stream, said the first data table from the first bit stream;

forming, from said second bit stream, said further the second data table from the second bit stream;

reading the second on-screen display message in the second data table;

locating and reading said the first on-screen display message in said the first data table using said the index stored in said further the second data table;

reading the first on-screen display message;

determining that the priority of the second on-screen display message is greater than the priority of the first on-screen display message; and

providing notification of said the second on-screen display message.

46. (currently amended) A system for delivering information, comprising:

an apparatus for transmitting the information, including: ~~a generating section for generating a first data table comprised of at least one message;~~

~~an encoder for operable to forming a first bit stream that includes said including a first data table that includes a first on-screen display message, & a further generating section for generating at least one further data table that includes at least one index which identifies a location of said message within said first data table;~~

~~a further second encoder for operable to forming at least one a second bit stream that includes said further including a second data table that includes at least one index which refers to a location of the first on-screen display message within the first data table and that includes a second on-screen display message, & and~~

~~an output for operable to transmitting said the first bit stream and said the second bit stream; and~~

an apparatus for receiving the transmitted information, including:

~~a receiver for receiving said operable to receive the first bit stream and said the second bit stream, & and~~

~~a processor for operable to forming said the first data table from said the first bit stream, and said first the second data table from said the second bit stream, to read the second on-screen display message, for locating to locate and reading said the first on-screen display message in said the first data table using said the index stored in said further the second data table, to read the first on-screen display message, and to determine that the priority of the second on-screen display message is greater than the priority of the first on-~~

screen display message, and for providing to thereby provide notification of said the second on-screen display message.

47. (currently amended) A readable medium recorded with instructions for carrying out a method of delivering information, said instructions method comprising:

forming a first bit stream including generating a first data table comprised of at least one that includes a first on-screen display message; forming a first bit stream that includes said first data table;

forming a second bit stream including a second generating at least one further data table that includes at least one index which identifies refers to a location of said the first on-screen display message within said the first data table and that includes a second on-screen display message; forming at least one second bit stream that includes said further data table; and

transmitting said the first bit stream and said the second bit stream;

receiving said the first bit stream and said the second bit stream;

forming, from said first bit stream, said the first data table from the first bit stream;

forming, from said second bit stream, said further the second data table from the second bit stream;

reading the second on-screen display message in the second data table;

locating and reading said the first on-screen display message in said the first data table using said the index stored in said further the second data table;

reading the first on-screen display message;

determining that the priority of the second on-screen display message is greater than the priority of the first on-screen display message; and

providing notification of said the second on-screen
display message.